

# Rishub Nahar

<https://rishubnahar.com>  
rishub.nahar@nyu.edu | 240.446.1150

## EDUCATION

### NEW YORK UNIVERSITY

B.A. IN COMPUTER SCIENCE

B.S. IN BUSINESS (STATISTICS)

Expected May 2021 | New York, NY

Cum GPA : 4.0 / 4.0 | Dean's List

SAT : 2400 / 2400

## LINKS

Github:// [rishub21](#)

LinkedIn:// [rishubnahar](#)  
[rishubnahar.com](#)

## COURSEWORK

### UNDERGRADUATE

Basic Algorithms (Currently Taking)

Data Structures

Discrete Math

Linear Algebra

Regression and Forecasting Models

Microeconomics

### INDEPENDENT

(Coursera - Andrew Ng)

Machine Learning

## SKILLS

### PROGRAMMING

Experienced:

Java • Python

Familiar:

Django • JavaScript • HTML

CSS • R • SQL • React

## EXTRACURRICULAR

**Hack NYU:** Helped design mockups for website overhaul

**Tech@NYU:** Freshman Circuit. Toured NYC tech companies

## EXPERIENCE

### APPLECART (Ad-tech) SOFTWARE ENGINEERING INTERN

Jun 2018 – Aug 2018 | New York, NY

- Developed web app that reduced querying time of a company data set with 230 million records by up to 50 %. Django, React, Elasticsearch
- Created Python testing suite for web scraper of a key alternative data source. Caught bug that had previously caused the scraper to process entries multiple times, thus improving run time by 10%. Apache Pulsar, Redis, Python
- Designed and implemented procedure for determining data integrity and ran Chi-Square gof tests to determine which data vendor would provide the best dataset for company's core social graph product. Spark, Python, SQL

### NATIONAL INSTITUTE OF HEALTH SOFTWARE ENGINEERING INTERN

Jun 2016 – Jul 2017 | Frederick, MD

- Co-authored paper on RNA species identification
- Created an algorithm to identify viral RNA species, including HIV, resulting in a 15% improvement in identification accuracy
- Prototyped Python client for a popular gene annotation REST API that has over 1 million annual calls

## AWARDS

### TECHCRUNCH DISRUPT SF HACKATHON | TOP 30 IN WORLD

2018 | San Francisco, CA

Developed geo-localized market app in Javascript that allows people to accept and post job requests to nearby viewers. **Devpost:** <https://devpost.com/software/geoworx>

### PENNAPPS HACKATHON | GRAND PRIZE : 1ST/150

2017 | Philadelphia, PA

Created smart trash can which used Python computer vision models to automatically sort between trash and recycled items. **Demo:** [youtu.be/b9gjsGgpY4c#t=44m23s](https://youtu.be/b9gjsGgpY4c#t=44m23s)

### FACEBOOK GLOBAL HACKATHON | FINALIST : TOP 15 IN WORLD

2017 | Menlo Park, CA

Built collaborative mobile coding tool in React Native to help aspiring engineers in developing nations

## SOCIETIES

### NYU QUANTITATIVE FINANCE SOCIETY | TECH LEAD

Oct 2017 – Present | New York, NY

- Created machine learning trading strategy with R and Python to predict buy and sell signals for utility companies in the S&P 500. Outperformed random strategy in every case. **Summary:** [rishubnahar.com/blog/utilityML.html](https://rishubnahar.com/blog/utilityML.html)
- Constructed bayesian network and incorporated elements of graph theory to develop shorting strategy for portfolio hedging.  
**Repo:** [github.com/Rishub21/Stock\\_Bayesian\\_Network](https://github.com/Rishub21/Stock_Bayesian_Network)

## PUBLICATIONS

**Self-Tuning Spectral Clustering for Full-length Viral Quasispecies Reconstruction with PacBio Long Reads** X. Jiao, H. Imamichi, T. Rehman, R. Nahar, R. Dewar, H. Lane, T. Imamichi, B. Sherman